

WHAT IS CLAIMED IS :

1. **A fluid control valve comprising:**
a valve body;
an annular groove portion formed in an outer periphery of the valve body;
a filter provided in the groove portion;
the filter including a plate with a plurality of perforations and formed into a cylindrical shape, the filter is fastened by a snap ring formed from a thin bar bent into a loop.
2. **A fluid control valve according to claim 1, wherein both ends of the snap ring extending in an axial direction and freely contacting with opposed side surfaces defining the groove portion.**
3. **A fluid control valve according to claim 1 comprising:**
each opposed side surface defining the groove portion being provided with a step portion, wherein a side edge of the cylindrical body is placed in the step portion.
4. **A fluid control valve according to claim 2, wherein a curvature of the snap ring is defended by two points of the cylindrical body contacting with the inner diameter of the snap ring.**
5. **A fluid control valve according to claim 1, wherein the plate is provided with a plural of perforations formed by etching or formed by net.**

6. A fluid control valve according to claim 1 comprising;
a spool provided in a central hole of the valve body, wherein the spool slidably moves in an axial direction by an electromagnet and the groove portion of the valve body freely communicates with an oil passage of the spool via a port in radial direction of the valve body.

7. A fluid control valve according to claim 1 comprising;
an outer surface of the valve body contacting with inner surface of the central hole of a housing, wherein an inlet port or an outlet port formed in the housing communicates with the groove portion of the valve body.